Work Order ID 78576 January-11-12 12:42:12 PM		*785	76*						Page 1
Item ID: D412-664-203 Revision ID:		Accept	*N900	040	100	* 9	Setup Start	*N.	S1*
*Item Name: Crosstube Aft		·					Stop	*N:	S2*
Start Date: 11/01/2012 Start Qty: 1.00	*1*		Cust Item I	D:					
Required Date: 31/01/2012 Req'd Qty: 1.00 Reference:	*1*		Customer:						
Approvals: Process Plan: M.C.J	Date: 12/01/11	Tooling:	Da	ate:		F	Run Start	"17	R1*
QC:	Date:	SPC (Y/N): .	Da	ate:	who		Stop	*N	R2*
Sequence ID/ Operation Work Center ID Description		Set Up/ Run Hours	Toọl ID	Tool #		Accept Qty		Reject Number	Insp. Stamp
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D412-664-243 E/DEO	To the				t ,t s∗			,	• *
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Document Control Photocopy	bluefile and create labels as p	per PPP D412-664-203 (· CHG 008			46)	- AT W	LJI	2-2-22
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*120 *120* CNC Bend 2 BENDING MACHINE Memo	- CROSSTUBES	0.00		Tw	-)	2-2-	13	
. 4.	as per Dwg D412-664-243 us 0	ing CNC bender progran	1 412-aft and	M					

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Work Order ID 78576 *78576* Page 2 January-11-12 12:42:12 PM Item ID: D412-664-203 Accept *N900040100* Setup Start Révision ID: Item Name: Crosstube Aft Start Qty: 1.00 **Start Date:** 11/01/2012 **Cust Item ID: Required Date:** 31/01/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: Date: **Approvals:** Tooling: Date: Stop Date:_____ SPC (Y/N): OC: Date: Sequence ID/ Operation Tool ID Set Up/ Tool # Plan Reject Accept Reject Insp. **Work Center ID** Description **Run Hours** Qty Code **Qty** Number Stamp 130 QC15- Crosstube Dimensional Check 0.00 Polsolsi 8 QC Memo Quality Control 140 0.00 Crosstubes *140* Crosstubes 0.00 Memo Crosstubes 1-Drill pilot holes in tube as per Dwg D412-664-243 using drill Jig DT8550 & DT8551 and drill table DT8577 using #9 holes as per OSI 10 to install towers. 12-2-14 2-Ream hole to finish size in tube as per Dwg D412-664-243using drill Jig DT8550 & DT8551. Check dimensions between holes, both sides on both cuffs, to ensure alignment with saddle holes. 3-SCRIBE PART # & BATCH # 4-Deburr & Inspect for surface damage. Repair damage within limits as per

Dwg D412-664-243

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12-02-14

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NCR:		W	ORK OR	DER NON-CONFORMAN	CE (NCI	7)				
DATE	STEP	Description of NC		Corrective Action Section		Verific	ation	Approval	Approval	
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Work Order ID 78576 January-11-12 12:42:12 PM				*78576*										
Item ID: Revision ID:	D412-664-20			Accept	*N900	040	100	* s	Setup Sta		VS1*			
Item Name:	Crosstube Aft								Ste	ոհ *	1 S2*			
Start Date:	11/01/2012	Start Qty: 1.00	*1*		Cust Item I	ID:								
Required Date: Reference:	: 31/01/2012	Req'd Qty: 1.00	*1*		Customer:									
Approvals:	Process Pla	in:	Date:	Tooling:	D:	ate:		F	Run Sta	"	JR1*			
	QC:		_ Date:	SPC (Y/N):	D:	ate:			Ste	_{ob} *	JR2*			
Sequence ID/ Work Center I	 D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #		Accept Qty	Reject Qty	Reject Numbe				
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Hand Finishing Cro	esstubes													
160		QC3- Inspect Part Finish	ı	0.00										
160 QC Quality Control		Memo		0.00 Sizks((6									
170		QC5- Inspect part compl	eteness to step on W/O	0.00										
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Quality Control

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Work Orde		576		*785	576*							Page 4
Item ID: Revision ID: Item Name:	D412-664-20 Crosstube Aft)3		Accept	*N900	040	100)* s	Setup	Start Stop	*N *N	S1* S2*
Start Date: Required Date: Reference:	11/01/2012 31/01/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item II Customer:	D:					1 4	. 17
Approvals:	Process Pla	n:	Date:	Tooling:	Da	te:	_	F	Run	Start	*N	R1*
	QC:			SPC (Y/N):	Da					Stop	*N	R2*
Sequence ID/ Work Center II)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
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180 Outsource2		M		0.00	,			Co	12	1/02	117	O
Outsource process - 1	NDT	Issue P/O:	netrant Inspection as per QS 1623 LPI as per AST tach copy of NDT results to	SI 038Or CM 1417								
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Packaging Packaging			transit damage by of NDT results attached	0.00 to work order.							<i>y</i> ,	
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OC				0.00	10211)							

Inspect for damage & ensure results are as per Dwg D412-664-203

Quality Control

										
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DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
										
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Work Order ID 78576 <i>January-11-12 12:42:12 PM</i>				*78576*							Page 5				
Start Date: Required Date:	D412-664-20 Crosstube Aft 11/01/2012 31/01/2012		*1* *1*	Accept	*N900 Cust Item II Customer:		100)*	Setup Star Stop	1.71	S1* S2*				
Approvals:	Process Pla	n:	Date:	Tooling: SPC (Y/N):		te:		I	Run Star Stoj	1/1	R1* R2*				
Sequence ID/ Work Center II 210 *21		1-Prime insic	0:15 AD		Tool ID	Tool#	Plan Code	Accept	Reject Qty	Reject Number	Insp. Stamp				
220 * 27 0* QC		QC14- Inspect Spray Pain	t	0.00				M	1 12	·ol	. 20 (

Then, Wrap in plastic bag to protect from scratches

Quality Control

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Work Order ID 78576 January-11-12 12:42:12 PM		*78576*							Page 6			
Revision ID: Item Name: Start Date: Required Date:	D412-664-20 Crosstube Aft 11/01/2012 31/01/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*	Accept	*N900 Cust Item I Customer:		^ ^*	Setup	Start Stop	*NS	S1* S2*	
Reference: Approvals:		n:		Tooling: SPC (Y/N):		ate:			Start Stop		₹1* ₹2*	
Sequence ID/ Work Center ID 230 *230* Crosstubes Crosstubes		1- Install cha up. A/R Prosea 2- Lightly sc with 41058 v 3-Install supp	Batch: 1200 EXP: 09/12 uff the bonded area using wash 'n' wipe bort with Scotch-Weld DB using installation jig Etch-Weld DP460 Batch	0412-664-243.Top holes s	clean the area	Tool# Pla		Qty	N	Reject Number	Insp. Stamp	
240 * ? 1 ^ *		QC5- Inspect part comple	steness to step on W/O	0.00			cal	1	.7	47 .	11	

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Work Orde		576			*785	576*							Page 7
Item ID: Revision ID:	D412-664-20)3			Accept	*N900	040	100)*	Setup	Start	*N:	S1*
Item Name:	Crosstube Aft										Stop	*N:	S2*
Start Date:	11/01/2012	Start Qty: 1.00)	*1*		Cust Item I	D:						
Required Date:	31/01/2012	Req'd Qty: 1.00)	*1*		Customer:							
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	QC:		Date:	····	SPC (Y/N):	Da	ate:				Stop	*N	R2*
Sequence ID/ Work Center ID)	Operation Description			Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Re Qt	-	Reject Number	Insp. Stamp
250		Pick Kit			0.00								
250 Packaging		Memo			0.00				S	P-	19-	-09-	37
Packaging													
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260		Memo			0.00				17/		2_	02,	22 m
Quality Control													
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270		Packaging							\sim	$\sim \sim$	26C	>	
Packaging		Memo			0.00				1 ~ \		38		
Packaging		*****E for appli Time &	and pack for shance tube is no cation time &	ot packaged if late ******	PPP D412-664-203 curing time is less than 12	2 hrs, see step 27)		

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DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Item ID: Revision ID: Item Name:	D412-664-20 Crosstube Aft			Accept	*N900	040	100)*	Setup	Start Stop	17	S1* S2*
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Approvals:	Process Pla	n:	Date:	Tooling: SPC (Y/N):		ate:			Run	Start Stop	!/	R1* R2*
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Quality Control

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January-11-12 12:42:16 PM

Work Order ID: 78576

Parent Item Name: Crosstube Aft

78576

D412-664-203

D412-664-203

Start Date: 11/01/2012

Required Date: 31/01/2012

Start Qty: 1.00

Required Qty: 1.00

Comments:

Parent Item:

IPP Rev:E04.02.16Reformat; Added D3189-1K/DS

IPP Rev:F 06-03-29

Remove Coments on Pick List JLM

IPP Rev:G 06.12.08 per ECN 886 IPP Rev:H 07-04-30 As per Rev D

EC JLM

IPP Rev:I 08-06-12 add comment in seq. 21 DD verified by:EC IPP rev J

11.04.21 DEO D412-664-243-E-1 EC verified DD

IPP REV:K

71353

11.10.03 DEO D412-664-243-E-2 DD verf:EC

		2 001 213 22 1									
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Date Status Issued Issued
D412-664-203TRN		Manufactured	No	38017	4	110	Each	0.0000	1		DW 12-2-13
D412-664 Crosstube Turning Detail	1-203TF	₹N		D oo	·				**		
D2896-1		Manufactured	No			230	Each	25.0000	1	1	
D2896-1	f								**		AS 12-2-21
				Location		Loc	<u>Qty</u>	Loc Code			
				LG053			25		_	\sim	_
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D3189-1		Manufactured	No			230	Each	24.0000	2	2	
D3189-1 Chafing Shield	•								**		AL 12-2-21
				Location		Loc	Oty	Loc Code			
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					36065		4		_		
				LG053	76473		20			2	

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DATE	STEP	Description of NC		Corrective Action Section		Verification	Approval	Approval
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Picklist Print January-11-12 12:42:16 PM									Page 2
Work Order ID: 78576		*7	8576*						
Parent Item: D412-664-203			412-664-2	M2 *					
Parent Item Name: Crosstube Aft		1 /	4 1/-004-/	(1).5		Si	art Date: 1	1/01/2012	Required Date: 31/01/2012
							tart Qty: 1		Required Qty: 1.00
D3595-063-570	Manufactured	No		230	Each	120.0000	2		Required Qty. 1.00
D3595-063-570 RUBBER CUSHION	ivianuractured	NO		230	Lacii	120.0000	**	2	Af 12-2-21
ROBBER COSMON			Location	Lo	c Oty	Loc Code			
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			42243		7				_
			MAT052		112				_
			71534		35			2	_
MS21920-28	December 1	No	76546	230	77 Each	72.0000	4		_
MS21920-28	Purchased	NO		230	Each	72.0000	**	4	10 12 0 21
Clamp(per MIL-DTL-8783C)									Af 12-2-21
			Location	<u>Lo</u>	c Qty	Loc Code			
			FG		5				_
			105884		5				_
			LG050		67				_
			116839		2				
			118713 119285		4				_
			(119283		30			4	_
			120054		30				_
MS21920-30	Purchased	No		230	Each	86.0000	2	2	_
MS21920-30 clamp(per MIL-DTL-8783C)							**		Af 12-2-21
ounip(por time 2 12 0/050)			Location	<u>Lo</u>	c Oty	Loc Code			
			LG		50				_
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January-11-12 12:42:16 PM			Shop Pa	cket Print					Page 2

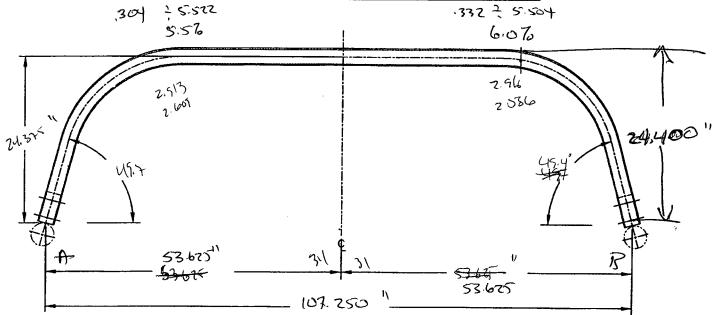
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Picklist Print January-11-12 12:42:16 PM							·	Page 3
Work Order ID: 78576 Parent Item: D412-664-203 Parent Item Name: Crosstube Aft			576* 12-664-2	203*			tart Date: 11/01/2012 Start Qty: 1.00	Required Date: 31/01/2012 Required Qty: 1.00
AN6-40A Bolt	Purchased	No		250	Each	32.0000	** 5	> -
	÷		Location ST342 119749	<u>Lo</u>	32 32	Loc Code		_
AN6-41A Bolt	Purchased	No	,	250	Each	23.0000	**	120187 Sp.
		•	Location ST342 119449 119749	<u>Lo</u>	23 3 20	Loc Code		
*AN960JD616 NAS1149D06 *AN960.ID616* Washer	Purchased	No		250	Each	0.0000	* 18 18 ** **	1190758
MS21042L6	Purchased	No		250	Each	1,118.000	16 6	2 22

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DART AEROSPACE LTD	Work Order:	78576
Description: Crosstube High Aft (412)	Part Number:	D412-664-203
Inspection Dwg: D412-664-243 Rev: E		Page 1 of 1

Required Dimension	Min	Max
Height	24.24	24.50
1/2 Span	53.59	53.85
Angle	49	52
Total Span	107.18	107.70
1 67,027		7



	Comments	^
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ne 132	6.0% crushing	(w) 31 passes.
13.2	60% crushy	(w 31 Passes

QC15 Inspection	
Date	12/02/14

Rev	Date	Change	Revised by	Approved
Α	07.02.06	New Issue	KJ/JM	
В	07.05.08	Dimensions updated per Dwg rev. D	KJ/JLM	
С	10.02.02	Dwg Rev updated	KJ 👭	1

W/O:			V	VORK ORDER CH	IANGES					
DATE	STEP	PRO	OCEDURE CH	HANGE		Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No	:	PAR #:	Fault Ca	tegory:	NC	R: Yes	No DQA:	Date: _		
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NCR:			WORK OR	DER NON-CONFO	DRMANC	E (NCR			·	
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			Onler Eng	Chief Eng		Date				
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NOTE: Date & initial all entries

Item	.Qty -243	Part Number	Description
1	Х	D412-664-243	CROSSTUBE ASSEMBLY (412 HIGH AFT)
2	1	D6009-129	CROSSTUBE
3	2	D3595-063-570	RUBBER CUSHION
4	1	D2896-1	SUPPORT
5	2	D3189-1	CHAFING SHIELD
6	2	D2856-600-1009	ABRASION STRIP
7	4	MS21920-28	CLAMP
8	2	MS21920-30	CLAMP (OR MS21920-32)
9	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTROMBELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

- 1) MATERIAL: MANUFACTURED FROM D6009-129
- FINISHED LENGTH = 124.100±0.020 (BEFORE BENDING/TRIMMING)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D412-664-243" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.
- WEIGHT: 47.0 lbs (PER IIN-D212-664)
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2896-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2896-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 13) INSTALL MS21920-30 CLAMPS (OR -32) WITH D3595-063-570 RUBBER CUSHIONS TO SECURE THE D2896-1. SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE SUPPORT.
- 14) INSTALL D2856-600-1009 ABRASION STRIPS WITH A 0.13 REF GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.
- 15) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES. NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 16) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

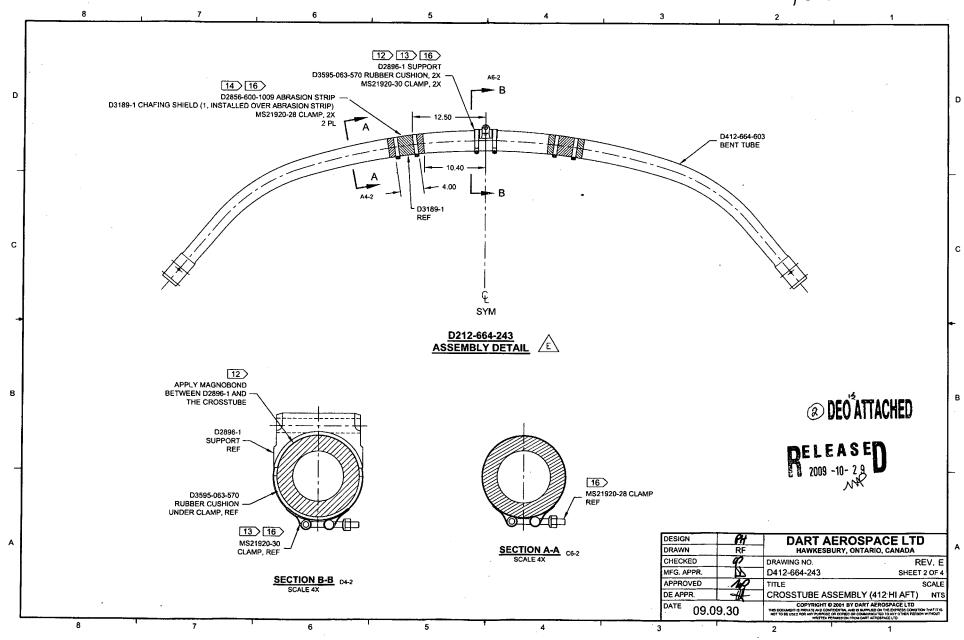
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E	REORG TO CUP PAR 08- C8-3 &	ANIZED VIEW RENT STAND 046 (ZN A6-3)	GENERAL NOTES; IS AND REFORMATTED DRAWING ISANDS; RELOCATED FLAG #6 PER I; ADD TOLERANCE (ZN 86-3, C4-3,) TURNING DETAIL & UPDATED LET 4.	RF	09.09.30		
D	REMO	VE D2732-058	3, CHANGE TO D3595-063-570	PH	07.03.09		
С			0-1087, ADD D2732-058 & , MS21920-32 WAS MS21920-30	мв	06.10.27		
В	ADD H SKIDT	OLES FOR C JBES	PH 05.02.04				
Α	NEW IS	SSUE		PH	01.10,17		
REV.			DESCRIPTION	BY	DATE		
DESIGN		PH	DART AEROSP	ACE	LTD		
DRAWN		RF	HAWKESBURY, ONTAF	RIO, CANA	NDA ·		
CHECK	D	P	DRAWING NO.		REV. E		
MFG. AF	PPR.	77	D412-664-243 SHEET 1				
APPRO	/ED	10	TITLE SCA				
DE APP	R.	-#	CROSSTUBE ASSEMBLY (412 HI AFT) NTS				
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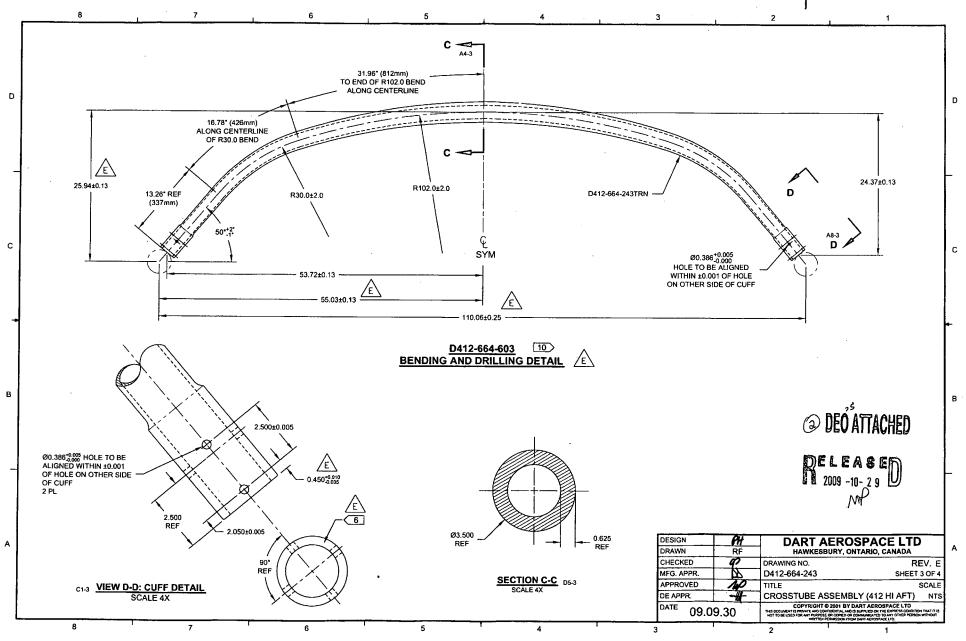
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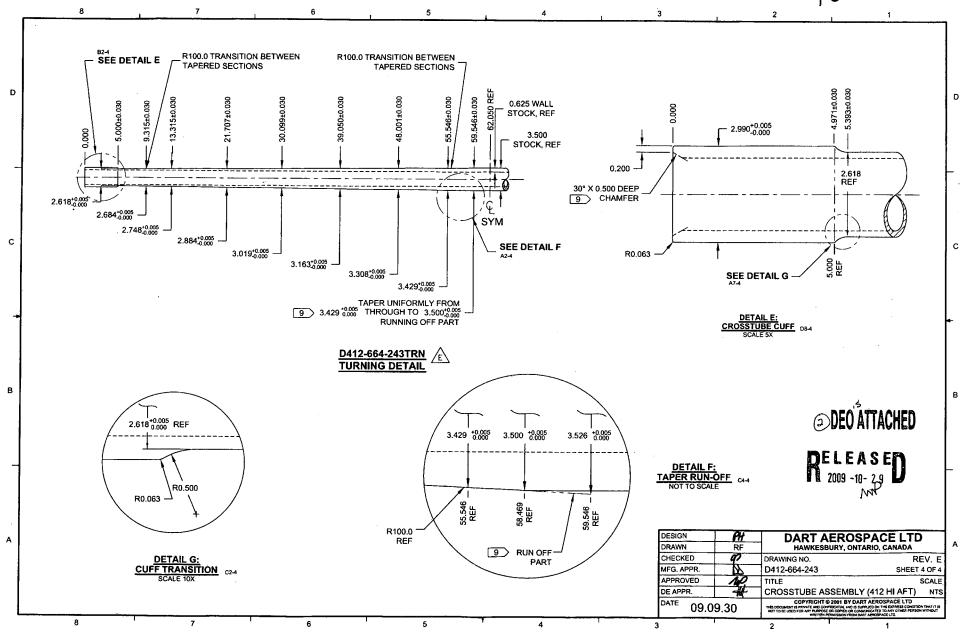


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Part No		PAR #:	Fault Ca	degory:	NCR:	Yes I	No DQ	A:	_ Date: _		
	Re	esolution:	Disposit	ion:	QA: N/C Closed:				sed: Date:		
NCR:			WORK OR	DER NON-CONFORM	ANCE	(NCR)					
DATE	STEP	Description of NC	Description of NC Corrective Action			Section B Verific			tion Approval	Approval	
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Part No	:	PAR #:	Fault Cateç	gory:	_ NCR: Yes	No DQ /	A:	Date: _	
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DATE	STEP	Description of NC		Corrective Action Section		Verific	ation	Approval	Approval
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DRAWING NO		REV. E	DART AEROSPACE LTD	D.E.O. NO.	SHEET NO. SCALE
D412-664-2	243 CROSSTUE	BE ASSEMBLY (412 HI AFT)	ENGINEERING ORDER	D412-664-243-E-1	SHEET 1 OF 2 NTS
DRAWN	<u>k</u>	CHECKED M	MFG. APPR.	APPROVED MA	DE APPR.
DATE	11.03.31	DATE 11/03.31	DATE #1.03.31	DATE 11/03·3)	DATE 11-03.31

PURPOSE:

REMOVED ABRASION STRIP IN FAVOR OF A THIN LAYER OF PROSEAL 890.

CHANGE:

PARTS LIST IS AMENDED AS FOLLOWS:

<u>IS:</u>

Item	Qty -243	Part Number	Description
6	0	D2856-600-1009	ABRASION STRIP

WAS:

		I	
6	2	D2856-600-1009	ABRASION STRIP

NOTES 2 AND 14, SHEET 1 ARE AMENDED AS FOLLOWS:

<u>IS:</u>

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA)

PAINT OUTSIDE PER DART QSI 005 4.2

AFTER PAINTING, APPLY CLEAR COAT ON HATCHED AREA

14) APPLY A THIN COAT OF PROSEAL 890 ON INSIDE CONCAVE SURFACE OF D3189-1 CHAFING SHIELD AND LET CURE PER MANUFACTURER'S INSTRUCTIONS. INSTALL PROSEALED D3189-1 CHAFING SHIELD ONTO CROSSTUBE BY APPLYING A THIN COAT OF PROSEAL 890 ONTO CROSSTUBE. BE SURE TO ELIMINATE ANY AIR GAPS.

WAS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

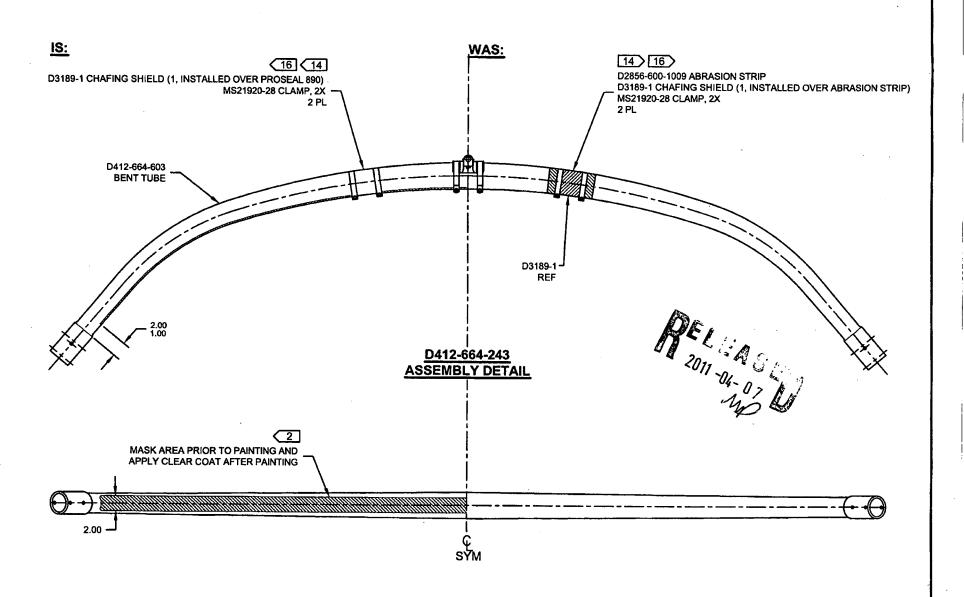
PAINT OUTSIDE PER DART QSI 005 4.2

14) INSTALL D2856-600-1009 ABRASION STRIPS WITH A 0.13 REF GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.



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W/O:			WC	RK ORDER CHAN	NGES					*
DATE	STEP	PR	OCEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	NC	R: Yes	No DQ	A:	_ Date: _	
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NCR:			WORK ORDE	ER NON-CONFOR	MANCE	(NCR)			
		Description of NC		Corrective Action S	Section B		Verific	ation	Approval	Approval
DATE	STEP	Section A	initial Chief Eng	Action Descriptio Chief Eng	n	Sign & Date	Secti		Chief Eng	QC Inspector
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DRAWING NO. TITLE REV. E DART AEROSPACE LTD D.E.O. NO. SHEET NO. D412-664-243 CROSSTUBE ASSEMBLY (412 HI AFT) **ENGINEERING ORDER** D412-664-243-E-1 SHEET 2 OF 2 NTS W DRAWN CHECKED MFG. APPR. APPROVED DE APPR. 11.03.31 11.03.3 DATE DATE DATE 11-03-31 DATE 11.03.3 11.03.31 DATE



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DATE	CTED	Description of NC		Corrective Action Section		Verificat	tion	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section		Chief Eng	QC Inspector

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DRAWING	NO. TIT	LE	REV. E	DART AEROSPACE L	D.E.O. NO.	SHEET NO.	SCALE
D412-66	4-243 CF	ROSSTUBE ASS'Y (4	12 HI AFT)	ENGINEERING ORDE	R D412-664-243-E-2	SHEET 1 OF 1	NTS
DRAWN	P	CHECKED	ASS	MFG. APPR.	APPROVED M	DE APPR.	
DATE	11.09.07	DATE	11.09.19	DATE ((.09.19	DATE 1).09.19	DATE 11.09.19	

PURPOSE:

REPLACE MAGNOBOND WITH 3M DP460 SCOTCH-WELD EPOXY ADHESIVE

CHANGE:

IS:

item	Qty -243	Part Number	Description
9	A/R	SCOTCH-WELD DP460	EPOXY ADHESIVE, 3M SCOTCH-WELD

WAS:

9	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023
ľ	1		ADHESIVE (TEXTRON/BELL SPEC. 299-947-100,
			TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 16, SHEET 1 IS AMENDED AS FOLLOWS:

IS:

- 12) INSTALL D2896-1 CENTER SUPPORT USING A 0.04" TO 0.07" THICK LAYER OF SCOTCH-WELD DP460 PER QSI 015. LET CURE FOR 24 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 16) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER ADHESIVE HAS CURED FOR 24 HOURS.

WAS:

- 12) INSTALL D2896-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2896-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 16) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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RAPPORT D'INSPECTION PAR RESSUAGE

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O:	Dart or a cons	PAGE
CLIENT	DART AEROSPACE	N10
ATTENTION	CHANTEL 1270 ABERDEEN ST.	ACUREN 188-16-60095
ADRESSE	12to ABERDEEN ST.	N° CLIENT PO/WO 30 55 /
	HAWKES BURY, ONTARID	SITE DE TRAVAIL HANKES BURY
Projet Item(s) examine	See BElow	Acceptation Std. ASTAL E1417-05 Date/rev. No indication
DESCRIPTION	N DES TRAVAUX N° PROCÉDURE REFONDAL DATE/RI	v. 2069 N° Technique LT-x XXXXXXX Date/Rev. 2007
N° ITEMS	SEE BELOW	MATÉRIEL ALUMINIUM ÉPAISSEUR LARAGE
Description	FPT ON X-TUBES AND RAPPEL	
	SINSPECTIONS	□ HAVABLE À L'EAU □ MÉTHODE DISSOLVANT □ PRÊ-ÉMULSIONNANT
MÉTHODE :	FLUORESCENT IVISIBLE	LUM. NOIRE S/N 2652 9 LPOISS. > 1 000 µ W/cm² LAMBIANT < 2 fc
	7167 TEMPS PÉNÉTRATION MIN. 10 30 MIN.	ÉQUIP. LUMIÈRE & LAMP.POCHE LAMP.CULASSE PUISS.>100 fc @ SURFACE
DISSOLVANT PÉN		AUTRES METRE LUM. N/S DATE CAL DUE 20/2-12-3
RÉVÉLATEUR Type révélateur	TEMPS RÉVÉLATION MIN. 10 MIN. R D NON AQUEUX D AQUEUX D SEC	MÈTRE LUM. N/S DATE CAL DUE 20/2-/2-3
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CONDITION SURFA	ACE 🗆 MEULÉE 🔲 SOUDÉE 🖼 WAC	IINÉE ☐ MRENAILLÉE ☐ METAL PROPRE B-10° C/50°F à 52°C/125°F ☐ > 52°C/125°F
	SURFACE	□ 10°C/30°FA 32°C/123 F
RÉSULTATS	(MÉTRIQUE IMPÉRIALE)	
Ітам	Commentaires Accepte Rejeté	
1 7	D 79701 tEM D301-1 (x3)	
12 -	80049 item D206-667-2078L	
	78574 item D412-464-203 V	
4 20	78 573 item D 412-664-203	
5 7	29525 FM D412-6/4202	
5 II	78574 item 0412-664-203 -	+ 817/42/17
7 7	7915 item 0217-664-107	
8 10	79116 HEM DAJZ-664-107	
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entendu que toute propriétaire/opérat opérateur, et le pri Acuren en rapport Norme de Dilligen Dans l'exécution d	quelle le Groupe Acuren Inc. Exécute les services ne concerne que les énoncés par écr s les descriptions, les observations et les expressions d'opinions faites par Acuren reflèt leur, et elles ne constituent pas des déclarations ou des garanties ou ne peuvent être in opriétaire/opérateur conserve la responsabilité entière des décisions prises en matière avec les services décrits dans les présentes ne peuvent excéder le coût des services re	ce normalement exercés dans des circonstances semblables par d'autres fournisseurs de ce type de servic
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IIN-D212-664 Page 22 of 25

5.0 PARTS LIST

HIGH GEAR CROSSTUBES

item	-101	-201	÷203	Part Number	Description
	х			D212-664-101	CROSSTUBE INSTALLATION, 204/205/210/212/214/412, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH FWD
		x	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	D212-664-201	CROSSTUBE INSTALLATION, 204/205/210/212/214, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH AFT
			х	D412-664-203	CROSSTUBE INSTALLATION, 412 HIGH AFT
1	1			D212-664-141	CROSSTUBE ASSEMBLY, 204/205/210/212/214/412, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH FWD
2		1		D212-664-241	CROSSTUBE ASSEMBLY, 204/205/210/212/214, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH AFT
3			1 1	D412-664-243	CROSSTUBE ASSEMBLY, 412 HIGH AFT
- 10				+ D0000 4	SUPPORT
10	2			* D2893-1 * D3595-063-450	RUBBER CUSHION
11 12	4			* MS21920-25	CLAMP (OR MS21042-26)
13	4			AN6-35A	BOLT
14	4			AN6-36A	BOLT
15	6			MS21042L6	NUT (OR MS21042-6)
16	18			AN960JD616	WASHER
20		2		* D2940-1	SUPPORT
21		4		* D3595-063-530	RUBBER CUSHION
22		4		* MS21920-28	CLAMP (OR MS21042-30)
23		2		AN6-40A	BOLT
24				AN6-41A MS21042L6	NUT (OR MS21042-6)
25 26		6 18		AN960JD616	WASHER
20		10		A143003D010	WASTIER
30			1	* D2896-1	SUPPORT
32			2	* D3595-063-570	RUBBER CUSHION
33			4	* MS21920-28	CLAMP
34			2	* MS21920-30	CLAMP (OR MS21042-32)
35			- 4	AN6-40A	BOLT
36		Î	2	AN6-41A	BOLT
37			6	MS21042L6	NUT (OR MS21042-6)
38		1	18	AN960JD616	WASHER
39			2	* D3189-1	CHAFING SHIELD
		1		ľ	T .

^{*}REFERENCE ONLY. PARTS ARE INCLUDED IN D212-664-141/-241 OR D412-664-243 ASSEMBLIES ABOVE NOTE: KITS INCLUDE EXTRA HARDWARE FOR COMPATIBILITY WITH BOTH DART AND BELL/AAI SKIDTUBES.

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Revision: **G**

Date: 11.08.30

Location/Lot Activity

Thursday, March 29, 2012 12:36:44 PM

Fransaction Fype	Item ID/ Item Name	Warehouse Location ID	Reason	Employee ID Location Code	Loc Trans Date	LocQtyPrior/ Location Qty	Lot Number	Lot Qty	Shelf Life Date t Code	Extended Cos
Account Value Change	D2896-1 / Support	Main Warehouse LG		FAUT01	10/10/2011	20.0000		20.0000		
		Main Warehouse		FAUT01	10/19/2011	-20.0000 20.0000	71502	-20.0000 20.0000		(\$6,397.93
		LG			10/19/2011	20.0000	71502	20.0000		\$6,397.93
								0.0000		\$0.00
Inv Adjustment	D2896-1 / Support	Main Warehouse	Found	FAUT01		21.0000		0.0000		
		LG053			3/7/2012	1.0000	71502	1.0000		\$319.90
		Main Warehouse	Found	FAUT01		21.0000		0.0000		
		LG053			3/7/2012	1.0000	71502	0000.1	ě	\$319.90
		Main Warehouse LG053	B/N correction	GOLD01	2/22/2012	21.0000	51500	0.0000		
			D.0.1		3/23/2012	1.0000 21.0000	71502	1.0000 0.0000		\$319.90
		Main Warehouse LG053	B/N correction	GOLD01	3/27/2012	1.0000	71502	1.0000		\$319.90
		20003			3/2//2012	1.0000	71302		and the contract of the contra	
								4.0000		\$1,279.59
Issue	D2896-1 / Support	Main Warehouse	73691	QUIR01		20.0000		20.0000		
		LG			10/19/2011	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse LG	73690	QUIR01	10/19/2011	19.0000	71502	19.0000		(#210.00)
		Main Warehouse	75417	QUIR01	10/19/2011	-1.0000 18.0000	71302	-1.0000 18.0000		(\$319.90)
		LG			11/9/2011	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	75416	QUIR01		17.0000		17.0000		, ,
		LG			11/9/2011	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	74376	FAUT01		16.0000		16.0000		
		LG			11/21/2011	-1.0000	71502	-1.0000		(\$319.90)

Fransaction Fype	Item ID/ Item Name	Warehouse	Reason	Employee ID	Loc Trans	LocQtyPrior/	Lot Number		Shelf Life Date	Extended
-) P-		Location ID		Location Code	Date	Location Qty		Lot Qty Lot	t Code	; Cost
Issue	D2896-1 / Support	Main Warehouse	74377 -30) FAUT01		15.0000		15.0000		
		LG		•	11/21/2011	-1.0000	71502	-1.0000		(\$319.90
		Main Warehouse	76351 - 20	DESJ02	10// 0011	35.0000		14.0000		
		LG053	~ <i>ر</i> ر	⁷ 7	12/6/2011	-1.0000	71502	-1.0000		(\$319.90
		Main Warehouse	76350 ~ 2 0	DESJ02		34.0000		13.0000		
		LG053	Λ:	\mathcal{N}	12/6/2011	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	77108	DESJ02		33.0000		12.0000		
		LG053	20	<u> </u>	12/9/2011	-1.0000	71502	-1.0000		(\$319.90)
	1/6/2	Main Warehouse	77273 ~2	LAVO01		32.0000		11.0000		
•		LG053	۷,	, c, ~,	12/9/2011	-1.0000	71502	-1.0000		(\$319.90)
for or		Main Warehouse	77109	DESJ02		31.0000		10.0000		
0 10		LG053			12/13/2011	-1.0000	71502	-1.0000		(\$319.90)
V/2,		Main Warehouse	77433	QUIR01		30.0000		9.0000		
, or	(1)	LG053			12/19/2011	-1.0000	71502	-1.0000		(\$319.90)
	1101	Main Warehouse	77434	QUIR01		29.0000		8.0000		
	1101	LG053			12/20/2011	-1.0000	71502	-1.0000		(\$319.90)
	11/ 5	Main Warehouse	77748	FAUT01		28.0000		7.0000		
	, , /9 /	LG053			1/6/2012	-1.0000	71502	-1.0000		(\$319.90)
	Marine Marine	Main Warehouse	77533	FAUT01		27.0000		6.0000		
	, ,	LG053			1/6/2012	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	77534	FAUT01		26.0000		5.0000		
		LG053			1/6/2012	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	78576	FAUT01		25.0000		4.0000		
		LG053			2/22/2012	-1.0000	71502	-1.0000		(\$319.90)
		Main	78574	FAUT01		24.0000		3.0000		
		Warehouse LG053			2/22/2012	-1.0000		-1.0000		(\$319.90)

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Transaction Type	Item ID/ Item Name	Warehouse	Reason	Employee 1D	Loc Trans		Lot Numbe	r LotQtyPrior/ Lot Qty	Shelf Life Date	Extended
• •		Location ID		Location Code	Date	Location Qty		Lot	Code	Cost
Issue	D2896-1 / Support	Main Warehouse	78575	FAUT01	2/22/2012	23.0000		2.0000		
		LG053			2/22/2012	-1.0000	71502	-1.0000		(\$319.90
		Main Warehouse	78573	GOLD01	2/2 / / 2 / 2	22.0000		1.0000		
		LG053			2/24/2012	-1.0000	71502	-1.0000		(\$319.90
		Main Warehouse	80135	FAUT01		22.0000		1.0000		
		LG053			3/7/2012	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	80134	FAUT01		22.0000		1.0000		
		LG053			3/7/2012	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	80585	GOLD01		22.0000		1.0000		
		LG053			3/23/2012	-1.0000	71502	-1.0000		(\$319.90)
		Main Warehouse	80584	GOLD01		22.0000		0000.1		
		LG053			3/27/2012	-1.0000	71502	-1.0000		(\$319.90)
								-24.0000		(\$7,677.51)
Loc Transfer	D2896-1 / Support	Main Warehouse		GOLD01		0.0000		0.0000		
		LG053			11/30/2011	14.0000	71502	14.0000		\$4,478.55
		Main Warehouse		GOLD01		14.0000		14.0000		
		LG			11/30/2011	-14.0000	71502	-14.0000	<u></u>	(\$4,478.55)
								0.0000		\$0.00
WIP Receipt	D2896-1 / Support	Main Warehouse	71502	GOLD01		0.0000		0.0000		
		LG			10/3/2011	20.0000	71502	20.0000		\$6,397.93
								20.0000		\$6,397.93